



# FortiExtender 100A

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- Technical Support
- New product features
- Protection from new threats

Vous devez enregistrer le produit pour recevoir:

- Support technique
- Nouvelles fonctionnalités du produit
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June 10, 2014

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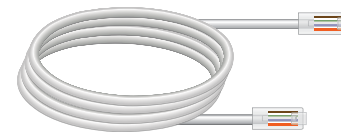
# Box Includes



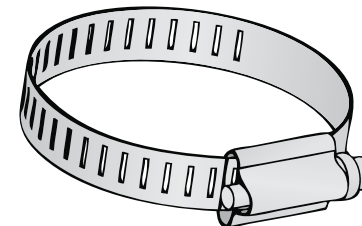
FortiExtender 100A



QuickStart Guide



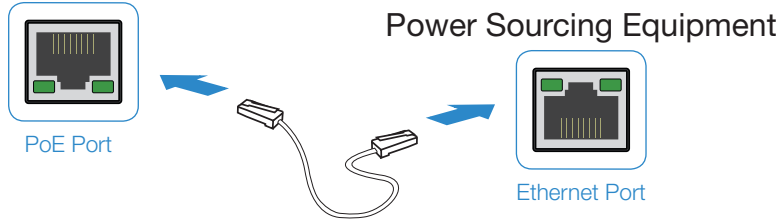
Ethernet Cable



2 Pole Mounting Straps

## 1 Basic Connections

### FortiExtender



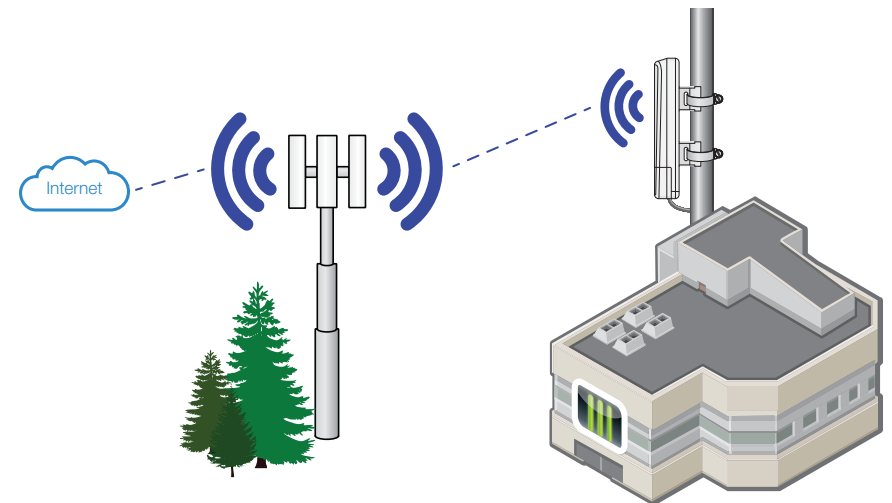
1. Insert the provided [Ethernet cable](#) through one of the holes on the bottom of the housing cover, then plug it into the [PoE port](#).
2. Slide the rubber plug around the [Ethernet cable](#) and firmly press it into the hole in the housing that the cable passes through.
3. Replace the [lower housing cover](#) on the unit.
4. Insert the other end of the [Ethernet cable](#) into an appropriate [Ethernet port](#) on the [Power Sourcing Equipment](#) (PSE), such as the available [Fortinet GPI-130](#), that provides [48V DC](#) and connects to your network or the Internet.

## 2 Setup

**A** Wireless WAN  
(p.8)

**B** FortiGate  
(p.9)

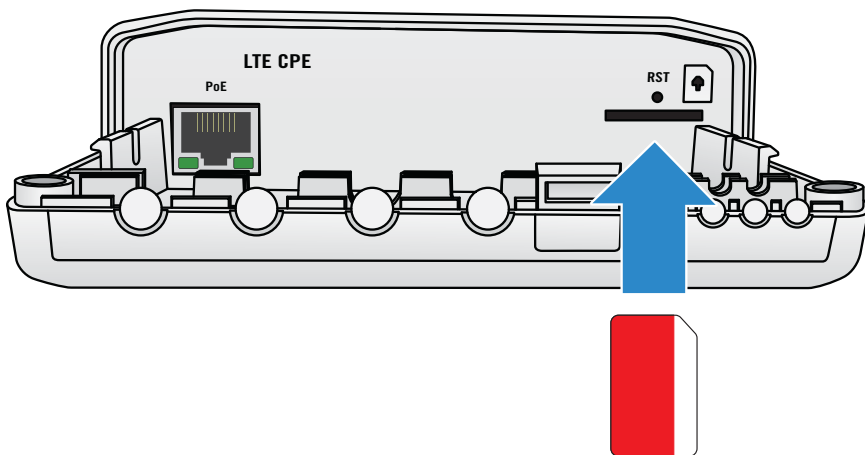
**C** FortiExtender  
(p.10)



## A Wireless WAN Setup

To ensure proper initial activation of your device with the Verizon network, follow the below steps the first time you use your product.

1. If you have a [static IP address](#), ensure that your Verizon account and mini-SIM card have both been properly provisioned with a static IP address.  
If you do not have a static [IP address](#), find the [IMEI number](#) for the modem on the silver label on the back of the device, then obtain a properly provisioned mini-SIM from Verizon or your Verizon reseller.
2. Remove the [lower housing cover](#) and insert your mini-SIM card into the [SIM slot](#). The SIM card should click comfortably into place.
3. Power the FortiExtender device and ensure that at least two LEDs on the [signal strength meter](#) are on.
4. If you have a [static IP address](#), wait for up to [one hour](#) for the activation process to complete. Do not disconnect power from the device during this time.  
If you do not have a static [IP address](#), wait for less than [five minutes](#) for the activation process to complete. Do not disconnect power from the device during this time.
5. When the activation process is complete, the [signal strength meter](#) LEDs will turn on.



## B FortiGate Setup

By default, FortiExtender configuration is hidden in the [FortiGate Web-based Manager](#). Enable it using the following commands in the [FortiGate Command Line Interface \(CLI\)](#):

```
config system global
    set fortiextender enable
    set wireless-controller enable
end
```

The [Control And Provisioning of Wireless Access Points \(CAPWAP\)](#) service must be enabled on the port that the FortiExtender unit is connected to using the following [CLI](#) commands:

```
config system interface
    edit [port]
        set allowaccess capwap
    end
```

**Note:** If the FortiExtender device is going to be operated in [DHCP mode](#) (p.10), the [DHCP server](#) must be enabled on the port where the device will be connected.

You can now proceed with configuring your FortiExtender device.

```
FortiGate # ?
config      Configure object.
get         Get dynamic and system information.
show        Show configuration.
diagnose    Diagnose facility.
execute     Execute static commands.
exit        Exit the CLI.

FortiGate # config ?
alertemail  Alert email configuration.
antivirus   AntiVirus configuration.
application Application control configuration.
client-reputation Client reputation tracking configuration
dlp         DLP configuration.
endpoint-control Endpoint control configuration.
firewall    Firewall configuration.
ftp-proxy   FTP proxy configuration.
gui         GUI configuration.
icap        ICAP client configuration.
imp2p       IM & P2P policy configuration.
ips         IPS configuration.
--More--
```

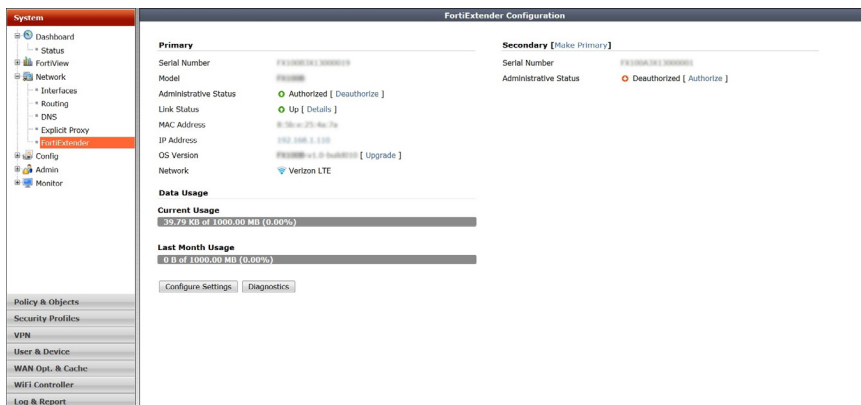
## FortiExtender Setup

The FortiExtender unit is designed to require no configuration in most networks. Once linked, the FortiGate controller will automatically control the FortiExtender unit via a [CAPWAP tunnel](#). Automatic configuration works if the unit is on the same [layer 2/3](#) network and subnet as the FortiGate unit.

If the FortiExtender's IP address cannot be determined automatically, or if the network uses [static IP addresses](#), it can be configured to use a static IP address.

### To automatically enable the FortiExtender

1. Connect the FortiExtender unit as described in “Basic Connections” on page 6. The unit requests an IP address from the DHCP server.
2. In the [FortiGate Web-based Manager](#), go to [Network > FortiExtender](#) and select [Authorize](#) for the added FortiExtender.

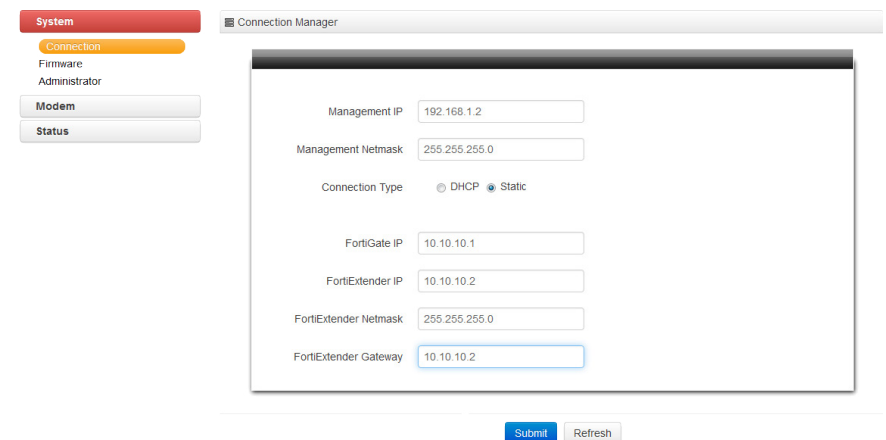


3. Once the device has been authorized, select [Configure Settings](#) to configure the FortiExtender settings as needed.

For more information, see the [FortiGate Handbook](#), available in the [Fortinet Document Library](#), <http://docs.fortinet.com>.

### To enable the FortiExtender with a static IP address

1. Connect the FortiExtender device to a private switch or hub, or directly to your [management computer](#) with a cross-over cable.
2. Configure the management computer to be on the same subnet as the internal interface of the FortiExtender unit by changing the [IP address](#) of the management computer to [192.168.1.1](#) and the [netmask](#) to [255.255.255.0](#).
3. Start a browser of your choice and browse to IP address [192.168.1.2](#).
4. Type [admin](#) in the [Name](#) and [Password](#) fields, then press [Enter](#).
5. In the [FortiExtender Web-based Manager](#), go to [System > Connection](#).
6. In the [Connection Type](#) field, select [Static](#), then enter the required [IP addresses](#), [netmask](#), and [gateway](#).
7. Select [Submit](#) to apply your changes.



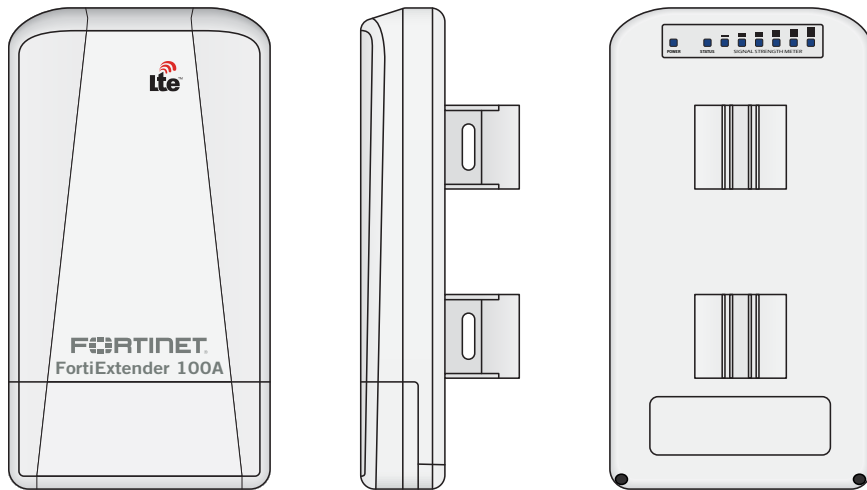
8. Disconnect the device from the management computer, install it as described in “Installation” on page 12, and reconnect it as described in “Basic Connections” on page 6.
9. In the [FortiGate Web-based Manager](#), go to [Network > FortiExtender](#) and select [Authorize](#) for the added FortiExtender.
10. Once the device has been authorized, select [Configure Settings](#) to configure the FortiExtender settings as needed.

For more information, see the [FortiGate Handbook](#), available in the [Fortinet Document Library](#), <http://docs.fortinet.com>.

### 3 Installation

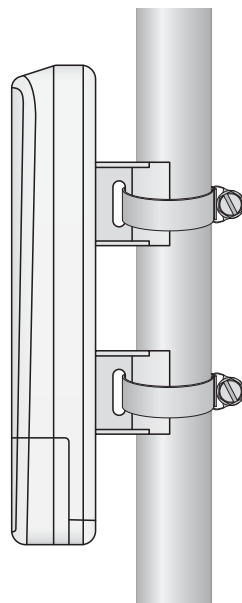
The unit is designed for outdoor use and to be mounted on a **pole** with a diameter of **3 to 4 cm** using the included **pole mounting straps**.

**Note:** The device must be professionally installed.



#### To mount the device

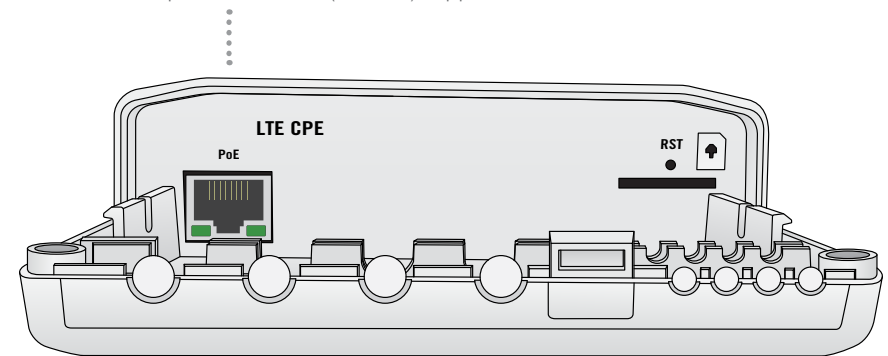
1. Disassemble the **pole mounting straps** using an appropriate **screwdriver**.
2. Affix the device to the **pole** by running the **straps** through the **gaps** in the mounting brackets on the rear of the device, and then around the pole.
3. Connect the device as described in “Basic Connections” on page 6.
4. Adjust the **direction** the device faces while observing the **signal strength** LEDs to ensure that the best possible signal is received.
5. Tighten the **pole mounting straps** using an appropriate **screwdriver** and ensure that the device is firmly in place.



## Device Guide

#### Ethernet Port (RJ-45)

Fast Ethernet interface with Power over Ethernet powered device (PoE PD) support.



#### SIM Card Slot (mini-SIM)

Mini-SIM card slot for provisioned Verizon mini-SIM card.

#### Status

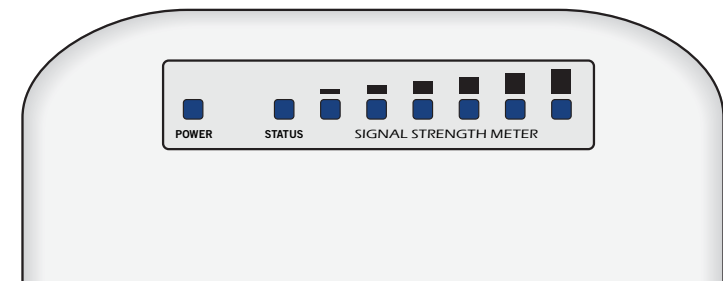
- Blue: Connected to controller and ISP
- ⚡ Flashing Blue: Connecting to the controller
- Off: Not connected

#### Power

- Blue: The unit is on
- Off: The unit is off

#### Signal Strength

- One or Two Bars: Weak signal
- Three or Four Bars: Good signal
- Five or Six Bars: Strong signal
- No Bars: No signal



# Cautions and Warnings

## Environmental Specifications

Refer to specific Product Model Data Sheet for Environmental Specifications (Operating Temperature, Storage Temperature, Humidity, and Altitude).

## Safety

Power over Ethernet (PoE) — Do not connect this device to PoE networks with routing to the outside plant. Use this equipment in a Network Environment 0 per IECTR 62101. Do not use PoE injectors that are not IEEE 802.3af compliant. They may damage your device. The unit is intended to be powered by PoE source of a LPS UL Listed or Class 2 IEC certified power adaptor rated 48 Vdc, 0.6 A.

Alimentation par Ethernet — Ce matériel doit être utilisé dans un Environnement Réseau 0 par IECTR 62101. Ce matériel est uniquement connecté aux réseaux PoE sans installation externe de routage. Cet appareil est conforme aux normes IEEE 802.3af. Ne pas utiliser d'autres injecteurs d'alimentation non conformes sous peine d'endommager votre matériel. Le produit doit être alimenté par une source PoE d'une alimentation à puissance limitée (UL Listed) ou par une alimentation Class 2 certifiée par IEC de 48 Vdc, 0.6 A.

# Regulatory Compliance

## Federal Communication Commission (FCC) – USA

This device complies with Part 15 of FCC Rules. Operation is subject to the following two conditions:

- (1) this device may not cause harmful interference, and
- (2) this device must accept any interference received; including interference that may cause undesired operation.

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy, and if it is not installed and used in accordance with the instruction manual, it may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference, in which case the user will be required to correct the interference at his own expense.

**WARNING:** Any changes or modifications to this product not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

## Industry Canada Equipment Standard for Digital Equipment (ICES) – Canada

CAN ICES-3 (A) / NMB-3 (A)

This digital apparatus does not exceed the Class A limits for radio noise emissions from digital apparatus set out in the Radio Interference Regulations of the Canadian Department of Communications.

Le présent appareil numérique n'émet pas de bruits radioélectriques dépassant les limites applicables aux appareils numériques de la classe A prescrites dans le Règlement sur le brouillage radioélectrique édicté par le ministère des Communications du Canada.



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